

WEST Search History

DATE: Thursday, May 23, 2002

Set Name Query

side by side

Hit Count Set Name

result set

DB=USOC; PLUR=YES; OP=ADJ

L3 L2 and melatonin

0 L3

L2 (514/415)

25 L2

(514/415) and (424/465 or 424/468 or 424/474 or 424/480 or
L1 424/482 or 514/769 or 514/770 or 514/772 or 514/772.3 or 514/777
or 514/781 or 514/784)

0 L1

END OF SEARCH HISTORY

WEST Search History

DATE: Thursday, May 23, 2002

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

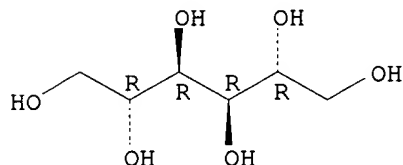
L3	L2 and melatonin	2	L3
L2	(514/415) and (424/465 or 424/468 or 424/474 or 424/480 or 424/482 or 514/769 or 514/770 or 514/772 or 514/772.3 or 514/777 or 514/781 or 514/784)	32	L2
L1	424/465 or 424/468 or 424/474 or 424/480 or 424/482 or 514/415 or 514/769 or 514/770 or 514/772 or 514/772.3 or 514/777 or 514/781 or 514/784	7821	L1

END OF SEARCH HISTORY

=> d 1-2

L4 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2002 ACS
RN 87-78-5 REGISTRY
CN Mannitol (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Mannidex 16700
FS STEREOSEARCH
DR 133-43-7, 36413-61-3, 5149-40-6
MF C6 H14 O6
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS,
BIOSIS,
BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CIN, DETHERM*, DIOGENES, EMBASE, GMELIN*,
HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, NAPRALERT, NIOSHTIC, PDLCOM*,
PHARMASEARCH, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Relative stereochemistry.



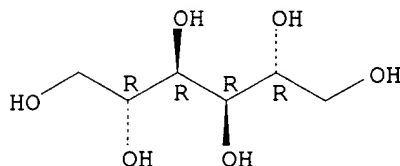
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

128 REFERENCES IN FILE CA (1967 TO DATE)
12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
129 REFERENCES IN FILE CAPLUS (1967 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L4 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2002 ACS
RN 69-65-8 REGISTRY
CN D-Mannitol (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Cordycepic acid (6CI, 7CI)
CN Mannitol, D- (8CI)
OTHER NAMES:
CN D-(-)-Mannitol
CN Diosmol
CN Isotol
CN Maniton S
CN Manna sugar
CN Mannidex
CN Mannigen
CN Mannistol
CN Mannit

CN Mannite
 CN **Mannitol**
 CN Mannitolium
 CN Mannogem 2080
 CN Marine Crystal
 CN Osmitrol
 CN Osmosal
 FS STEREOSEARCH
 DR 123897-58-5, 75398-80-0, 85085-15-0
 MF C6 H14 O6
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM*, DIOGENES,
 DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
 MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PHARMASEARCH,
 PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, USAN, USPAT2,
 USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.

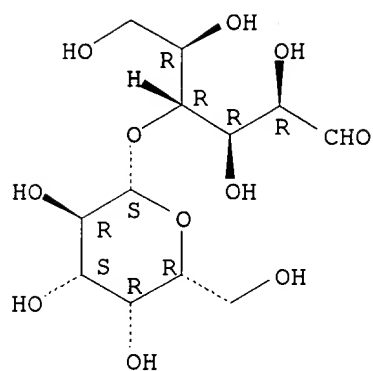


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11148 REFERENCES IN FILE CA (1967 TO DATE)
 265 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 11162 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 63-42-3 REGISTRY
CN D-Glucose, 4-O-.beta.-D-galactopyranosyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN **Lactose (8CI)**
OTHER NAMES:
CN (+)-Lactose
CN AHL
CN Aletobiose
CN D-(+)-Lactose
CN Fast-flo
CN Fast-Flo Lactose
CN Galactinum
CN Lactin
CN Lactin (carbohydrate)
CN Lactobiose
CN Lactose anhydride
CN Lactose anhydrous
CN Lactose Fast-flo
CN Milk sugar
CN Nonpareil 107
CN Osmolactan
CN Pharmatose 21
CN Pharmatose 325M
CN Pharmatose 450M
CN Saccharum lacticum
CN Tablettose
CN Tablettose 70
CN Zeparox EP
AR 16984-38-6
FS STEREOSEARCH
DR 1336-90-9, 36570-80-6, 73824-63-2, 89466-76-2, 35396-14-6
MF C12 H22 O11
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS,
BIOSIS,
BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
CHEMLIST, CHEMSAFE, CIN, CSCHM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU,
EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
NIOSH TIC,
PDL COM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, USPAT2,
USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry. Rotation (+).

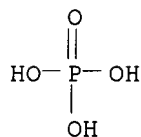


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16874 REFERENCES IN FILE CA (1967 TO DATE)
 506 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 16901 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=>

L3 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2002 ACS
 RN 10103-46-5 REGISTRY
 CN Phosphoric acid, calcium salt (8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 17: PN: WO0152894 PAGE: 101 claimed sequence
 CN **Calcium phosphate**
 CN CP-Z
 CN Crodax DP 30
 CN Dikal 21
 CN Dynafos
 CN KDV 15u
 CN LF Bosei CP-Z
 CN LF-CP-ZA
 CN Man-Gill 51504
 MF Ca . x H3 O4 P
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
 CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN,
 CSNB, DIOGENES, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2,
 GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PDLCOM*, PIRA,
 PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 CRN (7664-38-2)



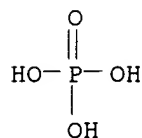
●x Ca

4588 REFERENCES IN FILE CA (1967 TO DATE)
 91 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 4600 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d 2

L3 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2002 ACS
 RN 7758-87-4 REGISTRY
 CN Phosphoric acid, calcium salt (2:3) (8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN .alpha.-Tricalcium phosphate
 CN .beta.-TCP
 CN .beta.-Tricalcium phosphate

CN .beta.-Whitlockite
 CN 14: PN: WO0152894 PAGE: 100 claimed sequence
 CN Apamicron AP 12C
 CN Bonarka
 CN Calcium orthophosphate
 CN Calcium orthophosphate (Ca3(PO4)2)
 CN **Calcium phosphate**
 CN Calcium phosphate (3:2)
 CN Calcium phosphate (Ca3(PO4)2)
 CN Calcium tertiary phosphate
 CN Multifos
 CN Phosphoric acid calcium(2+) salt (2:3)
 CN Posture
 CN Posture (calcium supplement)
 CN Synthograft
 CN Synthos
 CN TCP
 CN TCP 10
 CN Tertiary calcium phosphate
 CN Tribasic calcium phosphate
 CN Tricalcium diphosphate
 CN Tricalcium orthophosphate
 CN Tricalcium phosphate
 CN Tricalcium phosphate (Ca3(PO4)2)
 DR 1344-15-6, 123211-19-8
 MF Ca . 2/3 H3 O4 P
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
 CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE,
 GMELIN*,
 HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC,
 PDLCOM*, PHAR, PIRA, PROMT, TOXCENTER, TULSA, USPAT2, USPATFULL, VETU,
 VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 CRN (7664-38-2)



● 3/2 Ca

5641 REFERENCES IN FILE CA (1967 TO DATE)
 99 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 5658 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 44 OF 110 BIOBUSINESS COPYRIGHT 2002 BIOSISDUPLICATE 17
ACCESSION NUMBER: 1998:17798 BIOBUSINESS
DOCUMENT NUMBER: 0969621
TITLE: **Biphasic** release characteristics of dual
drug-loaded matrix tablet using aqueous based coating.
AUTHOR: Lee B-J; Ryu S-G
CORPORATE SOURCE: Biol. Rhythm Controlled Release Lab., Coll. Pharm.,
Kangwon
SOURCE: Natl. Univ., Chuncheon 200-701, South Korea.
Pharmaceutical Research (New York), (1997) Vol.14, 11
Suppl., p.s542.
Annual Meeting of the American Association of
Pharmaceutical Scientists, Boston, Massachusetts, USA,
November 2-6, 1997.. ISSN: 0724-8741.
DOCUMENT TYPE: CONFERENCE
FILE SEGMENT: NONUNIQUE
LANGUAGE: English
CLASSIFICATION: 04100 BIOCHEMISTRY & CHEMISTRY-GENERAL; 04200
CARBOHYDRATES & RELATED COMPOUNDS; 15800 ENDOCRINE
SYSTEM;
21100 PHARMACOLOGY & CHEMOTHERAPY; 72100 METHODS,
MATERIALS & APPARATUS
SUPPLEMENTARY TERM: MEETING ABSTRACT; MEETING POSTER; PHARMACEUTICALS; AQUEOUS
BASED COATING; **BIPHASIC** RELEASE CHARACTERISTICS;
DUAL DRUG-LOADED MATRIX TABLET;
HYDROXYPROPYLMETHYLCELLULOSE; PHARMACEUTICALS; EUDRAGIT
RS30D; **MELATONIN**
CAS REGISTRY NO.: **73-31-4 (MELATONIN)**

L6 ANSWER 22 OF 110 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.DUPLICATE 9

ACCESSION NUMBER: 1999350718 EMBASE

TITLE: Controlled release of dual drug-loaded hydroxypropyl methylcellulose matrix tablet using drug-containing polymeric coatings.

AUTHOR: Lee B.-J.; Ryu S.-G.; Cui J.-H.

CORPORATE SOURCE: B.-J. Lee, Biological Rhythm Laboratory, College of Pharmacy, Kangwon National University, Chuncheon 200-709, Korea, Republic of. bjl@kangwon.ac.kr

SOURCE: International Journal of Pharmaceutics, (1999) 188/1 (71-80).

Refs: 25

ISSN: 0378-5173 CODEN: IJPHDE

PUBLISHER IDENT.: S 0378-5173(99)00204-5

COUNTRY: Netherlands

DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 037 Drug Literature Index

039 Pharmacy

LANGUAGE: English

SUMMARY LANGUAGE: English

ABSTRACT:

A dual drug-loaded hydroxypropylmethylcellulose (HPMC) matrix tablet simultaneously containing drug in inner tablet core and outer coated layer was formulated using drug-containing aqueous-based polymeric Eudragit(.RTM.) RS30D dispersions. Effects of coating levels, drug loadings in outer layers, amount and type of five plasticizers and talc concentration on the release characteristics were evaluated on the characteristics in simulated gastric fluid for 2 h followed by a study in intestinal fluids. **Melatonin**

(MT) was selected as a model drug. The surface morphology of dual drug-loaded HPMC tablets using scanning electron microscope (SEM) was smooth, showing the distinct coated layer with about 75-.mu.m coating thickness at the 15% coating level. Unlike the uncoated and conventionally coated HPMC tablet, the dual drug-loaded HPMC matrix tablet gave a **biphasic** linear release, showing a zero-order for 4 h (first) followed by another zero-order release when fitted using linear regression ($r^2=0.99$). As the coating levels (15, 25%) increased, the release rate was further decreased. The **biphasic** release profiles of dual drug-loaded HPMC matrix tablet was unchanged except when 25% coating level containing 0.5% drug concentration was applied. As the drug concentration in polymeric coating dispersion increased (0.25-1.0%), the amount of drug released increased. The time for the first linear release was also advanced. However, the **biphasic** release pattern was not changed.

The **biphasic** release profiles of dual drug-loaded HPMC matrix tablet were highly modified, depending on the amount and type of five plasticizers. Talc (10-30%) in coating dispersion as an anti-sticking material did not affect

the release profiles. The current dual drug-loaded HPMC matrix tablet, showing ***biphasic*** release profiles may provide an alternative to deliver drugs with circadian rhythmic behaviors in the body but needs to be further validated

in future in human studies. The dual drug-loaded coating method is also interesting for the modified release of poorly water-soluble drugs because solubilizers and other additives can be added in drug-containing polymeric coating dispersions. Copyright (C) 1999 Elsevier Science B.V.

CONTROLLED TERM:

Medical Descriptors:

*matrix tablet
drug release
drug coating
stomach juice
in vitro study
scanning electron microscopy
article
priority journal

Drug Descriptors:

*melatonin: PK, pharmacokinetics
*melatonin: PR, pharmaceuticals
*melatonin: CB, drug combination
*melatonin: AN, drug analysis
*hydroxypropylmethylcellulose: PD, pharmacology
*hydroxypropylmethylcellulose: PR, pharmaceuticals
*hydroxypropylmethylcellulose: CB, drug combination
eudragit: CB, drug combination
plasticizer: CM, drug comparison
plasticizer: CB, drug combination
talc: CM, drug comparison
talc: CB, drug combination
microcrystalline cellulose: CB, drug combination
magnesium stearate: CB, drug combination
aerosil: PD, pharmacology
aerosil: CM, drug comparison
aerosil: CB, drug combination
sebacic acid dibutyl ester: PD, pharmacology
sebacic acid dibutyl ester: CM, drug comparison
sebacic acid dibutyl ester: CB, drug combination
citric acid triethyl ester: PD, pharmacology
citric acid triethyl ester: CM, drug comparison
citric acid triethyl ester: CB, drug combination
citric acid tributyl ester: PD, pharmacology
citric acid tributyl ester: CM, drug comparison
citric acid tributyl ester: CB, drug combination
citric acid acetylributyl ester: PD, pharmacology
citric acid acetylributyl ester: CM, drug comparison
citric acid acetylributyl ester: CB, drug combination

CAS REGISTRY NO.:

(melatonin) 73-31-4;
(hydroxypropylmethylcellulose) 9004-65-3; (eudragit)
24938-16-7, 51822-44-7, 9065-11-6; (talc) 14807-96-6;
(microcrystalline cellulose) 39394-43-9, 51395-75-6;
(magnesium stearate) 557-04-0; (sebacic acid dibutyl

ester)

109-43-3; (citric acid triethyl ester) 77-93-0; (citric
acid tributyl ester) 77-94-1

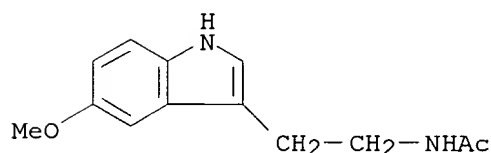
CHEMICAL NAME:

(1) Cab o sil; (2) Avicel; Eudragit rs 30 d

COMPANY NAME:

(1) Cabot (United States); (2) Chong Kun Dang (Korea,
Republic of); Katayama (Japan); Morflex (United States);
Richwood (Korea, Republic of); Sigma (United States);
Morepen (India)

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
 RN 73-31-4 REGISTRY
 CN Acetamide, N-[2-(5-methoxy-1H-indol-3-yl)ethyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Acetamide, N-[2-(5-methoxyindol-3-yl)ethyl]- (6CI, 8CI)
 OTHER NAMES:
 CN 5-Methoxy-N-acetyltryptamine
 CN Circadin
 CN **Melatonin**
 CN Melatonine
 CN Melovine
 CN N-Acetyl-5-methoxytryptamine
 CN N-[2-(5-Methoxyindol-3-yl)ethyl]acetamide
 CN Regulin
 FS 3D CONCORD
 MF C13 H16 N2 O2
 CI COM
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
 BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS,
 CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM,
 CSNB, DDFU, DIOGENES, DRUGU, EMBASE, HODOC*, IFICDB, IFIPAT, IFIUDB,
 IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PHAR, PIRA, PROMT,
 RTECS*, SPECINFO, TOXCENTER, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8700 REFERENCES IN FILE CA (1967 TO DATE)
 95 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 8709 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 60 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
 RN 9004-65-3 REGISTRY
 CN Cellulose, 2-hydroxypropyl methyl ether (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 2-Hydroxypropyl methyl cellulose
 CN 2-Hydroxypropyl methyl cellulose ether
 CN 60SH4000
 CN 60SH4000F
 CN 90SH100000
 CN 90SH15000S
 CN Accel R 100
 CN Benecel MP 3
 CN Benecel MP 363C
 CN Benecel MP 824
 CN Benecel MP 9
 CN Benecel MP 943
 CN Benecel MP 943W
 CN Bermocoll E 411FQ
 CN Celacol 15000DS
 CN Celacol HPM 15000DS
 CN Celacol HPM 450
 CN Celacol HPM 5000
 CN Cellulose hydroxypropyl methyl ether
 CN Cesca HPC 50
 CN Courlose HPM
 CN Culminal 20000PFR
 CN Culminal MHPC
 CN Culminal MHPC 20000PFR
 CN Culminal MHPC 20000PR
 CN Culminal MHPC 2000S
 CN Culminal MHPC 400
 CN Culminal MHPC 4000PFR
 CN Culminal MHPC 6000
 CN DP 1208
 CN DP 1209
 CN EM 1100
 CN EM 1100 (cellulose derivative)
 CN HPM 100DS
 CN **HPMC**
 CN HPMC 20000PV
 CN HPMC 2208
 CN HPMC 2910E
 CN HPMC-K 35LV
 CN Hydroxypropyl methyl cellulose
 CN Hydroxypropyl methyl cellulose ether
 CN Hypromellose
 CN K 35LV
 CN Marpolose 60MP5
 CN Marpolose 65MP400
 CN Marpolose 65MP4000
 CN Marpolose 90MP15000
 CN Marpolose 90MP4000
 CN Marpolose EMP-H
 CN Marpolose MP 4000
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for

DISPLAY
 DR 12673-53-9, 8063-82-9, 11106-33-5, 171544-38-0, 59029-31-1, 125053-98-7,
 62683-26-5, 65607-39-8, 37341-76-7, 68073-10-9, 137397-89-8, 137397-90-1,
 137397-91-2, 71373-07-4, 39363-71-8
 MF C3 H8 O2 . x C H4 O . x Unspecified
 CI COM
 PCT Manual registration, Polyother, Polyother only
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
 CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN,
 CSCHEM, CSNB, DDFU, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB,
 IPA, MEDLINE, MRCK*, MSDS-OHS, PIRA, PROMT, RTECS*, TOXCENTER, USAN,
 USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

CRN 9004-34-6
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

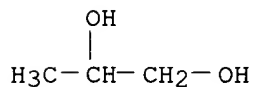
CM 2

CRN 67-56-1
 CMF C H4 O

H₃C-OH

CM 3

CRN 57-55-6
 CMF C3 H8 O2



7154 REFERENCES IN FILE CA (1967 TO DATE)
 109 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 7167 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d fcn

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
 CN Cellulose, 2-hydroxypropyl methyl ether (9CI) (CA INDEX NAME)
 OTHER NAMES:

CN 2-Hydroxypropyl methyl cellulose
CN 2-Hydroxypropyl methyl cellulose ether
CN 60SH4000
CN 60SH4000F
CN 90SH100000
CN 90SH15000S
CN Accel R 100
CN Benecel MP 3
CN Benecel MP 363C
CN Benecel MP 824
CN Benecel MP 9
CN Benecel MP 943
CN Benecel MP 943W
CN Bermocoll E 411FQ
CN Celacol 15000DS
CN Celacol HPM 15000DS
CN Celacol HPM 450
CN Celacol HPM 5000
CN Cellulose hydroxypropyl methyl ether
CN Cesca HPC 50
CN Courlose HPM
CN Culminal 20000PFR
CN Culminal MHPC
CN Culminal MHPC 20000PFR
CN Culminal MHPC 20000PR
CN Culminal MHPC 2000S
CN Culminal MHPC 400
CN Culminal MHPC 4000PFR
CN Culminal MHPC 6000
CN DP 1208
CN DP 1209
CN EM 1100
CN EM 1100 (cellulose derivative)
CN HPM 100DS
CN **HPMC**
CN HPMC 20000PV
CN HPMC 2208
CN HPMC 2910E
CN HPMC-K 35LV
CN Hydroxypropyl methyl cellulose
CN Hydroxypropyl methyl cellulose ether
CN Hypromellose
CN K 35LV
CN Marpolose 60MP5
CN Marpolose 65MP400
CN Marpolose 65MP4000
CN Marpolose 90MP15000
CN Marpolose 90MP4000
CN Marpolose EMP-H
CN Marpolose MP 4000
CN MC 400
CN Mecellulose PMC 40U
CN Methocel 181
CN Methocel 20-231
CN Methocel 20-333

CN	Methocel	227
CN	Methocel	228
CN	Methocel	240S
CN	Methocel	25
CN	Methocel	250S
CN	Methocel	311
CN	Methocel	40-202
CN	Methocel	4FM-PRG
CN	Methocel	50
CN	Methocel	60HG4000
CN	Methocel	856N
CN	Methocel	90HG40
CN	Methocel	E
CN	Methocel	E 10
CN	Methocel	E 10M
CN	Methocel	E 10MCR
CN	Methocel	E 10P
CN	Methocel	E 15
CN	Methocel	E 15LV
CN	Methocel	E 3
CN	Methocel	E 4M
CN	Methocel	E 5
CN	Methocel	E 50
CN	Methocel	E4 EP
CN	Methocel	E50LG
CN	Methocel	F
CN	Methocel	F 240
CN	Methocel	F 40M
CN	Methocel	F 4M
CN	Methocel	F 4MPRG
CN	Methocel	F 50
CN	Methocel	F 50LV
CN	Methocel	F 75M
CN	Methocel	F 7M
CN	Methocel	HG
CN	Methocel	HG 228
CN	Methocel	HG 60
CN	Methocel	HG 65
CN	Methocel	HG 90
CN	Methocel	J
CN	Methocel	J 12HS
CN	Methocel	J 12M
CN	Methocel	J 12MS
CN	Methocel	J 20
CN	Methocel	J 20MS
CN	Methocel	J 2MS
CN	Methocel	J 4
CN	Methocel	J 4M
CN	Methocel	J 50
CN	Methocel	J 5M
CN	Methocel	J 5MS
CN	Methocel	J 75
CN	Methocel	J 75M
CN	Methocel	J 75MS
CN	Methocel	J 75MS-N

CN	Methocel	K
CN	Methocel	K 100
CN	Methocel	K 100LV
CN	Methocel	K 100M
CN	Methocel	K 15
CN	Methocel	K 15M
CN	Methocel	K 15M-DGS
CN	Methocel	K 15MCR
CN	Methocel	K 15MP
CN	Methocel	K 15MS
CN	Methocel	K 3
CN	Methocel	K 35
CN	Methocel	K 35LV
CN	Methocel	K 4M
CN	Methocel	K 4M Premium
CN	Methocel	K 4MCR
CN	Methocel	K 4MP
CN	Methocel	K 4MP-CR
CN	Methocel	K 4MS
CN	Methocel	K 5M
CN	Methocel	K 75M
CN	Methocel	MK 4
CN	Methocel	X 2602
CN	Methocel	XD 1214
CN	Methocel	XD 1214.44
CN	Methofas	PM
CN	Methofas	PM 450
CN	Methofas	PM 4500
CN	Methyl hydroxypropyl cellulose	
CN	Metolose	50SH15
CN	Metolose	60 SH4000
CN	Metolose	605H
CN	Metolose	60H06
CN	Metolose	60H15
CN	Metolose	60SH
CN	Metolose	60SH03
CN	Metolose	60SH100
CN	Metolose	60SH10000
CN	Metolose	60SH15
CN	Metolose	60SH4000
CN	Metolose	60SH50
CN	Metolose	65SH
CN	Metolose	65SH100000
CN	Metolose	65SH1500
CN	Metolose	65SH400
CN	Metolose	65SH4000
CN	Metolose	65SH50
CN	Metolose	90SH
CN	Metolose	90SH100
CN	Metolose	90SH100000
CN	Metolose	90SH1000000
CN	Metolose	90SH15
CN	Metolose	90SH15000
CN	Metolose	90SH3000
CN	Metolose	90SH30000

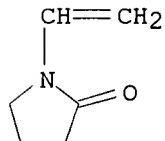
CN Metolose 90SH4
CN Metolose 90SH400
CN Metolose 90SH4000
CN Metolose 90SH8000
CN Metolose SH
CN Metolose SH 1500
CN Metolose SH 30000
CN Metolose SH 30000FD
CN Metolose SH 4000
CN Metolose SH 5000
CN Metolose SH 60
CN Metolose SH 65SH
CN Metolose SH 90SH
CN Metolose SHV-P
CN Metolose SHV-PF
CN Metolose TC 5
CN MOPTs
CN Noigel 0215H
CN Opadry OY 29020 clear
CN Opadry OY 7240
CN Pharmacoat 603
CN Pharmacoat 606
CN Pharmacoat 645
CN Pharmacoat HPMC 615
CN R 40
CN R 40 (cellulose derivative)
CN Sepifilm LP 010
CN Synchron
CN Synchron-Oral
CN TC 5
CN TC 5 (cellulose derivative)
CN TC 5-RW
CN TC 5E
CN TC 5R
CN Viscontran MHPC 50
CN Viscontran MHPC 6000
CN Walocel MK 3.000PF
CN Walocel MW 60GA

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 9003-39-8 REGISTRY
CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-Pyrrolidinone, 1-vinyl-, polymers (8CI)
OTHER NAMES:
CN 1-Vinyl-2-pyrrolidinone polymer
CN 1-Vinyl-2-pyrrolidone homopolymer
CN 1-Vinyl-2-pyrrolidone polymer
CN 143RP
CN Agent AT 717
CN Agrimer 15
CN Agrimer 30
CN Agrimer 90
CN Agrimer K 30
CN Albigen A
CN Aldacol Q
CN Antaron P 804
CN Antitox Vana
CN AT 717
CN B 7509
CN Bolinan
CN Cevian A 88036
CN Divergan RS
CN Gaftex AE-K 15
CN Ganex P 804
CN Hemodesis
CN Hemodez
CN K 115
CN K 115 (vinyl polymer)
CN K 120
CN K 120 (vinyl polymer)
CN K 15
CN K 15 (polymer)
CN K 17
CN K 25
CN K 25 (surfactant)
CN K 30
CN K 60
CN K 60 (polymer)
CN K 90
CN Kollidon
CN Kollidon 12PF
CN Kollidon 17
CN Kollidon 17PF
CN Kollidon 25
CN Kollidon 30
CN Kollidon 90
CN Kollidon 90F
CN Kollidon CE 50/50
CN Kollidon K 17
CN Kollidon K 25
CN Kollidon K 30
CN Kollidon K 90

CN Kollidon K 90F
 CN **PVP**
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
 DISPLAY
 DR 9015-62-7, 9080-59-5, 132778-04-2, 132778-05-3, 132834-20-9, 61932-72-7,
 65931-56-8, 153631-61-9, 29386-94-5, 41724-41-8, 53026-73-6, 53026-74-7,
 53200-27-4, 111214-46-1, 116404-61-6
 MF (C6 H9 N O)x
 CI PMS, COM
 PCT Polyvinyl
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
 CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST,
 CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, ENCOMPLIT,
 ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
 MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PHARMASEARCH, PIRA, PROMT, RTECS*,
 TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, TSCA**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)

CM 1

 CRN 88-12-0
 CMF C6 H9 N O



18433 REFERENCES IN FILE CA (1967 TO DATE)
 811 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 18459 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
 CN 2-Pyrrolidinone, 1-ethenyl-, homopolymer (9CI) (CA INDEX NAME)
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 CN 1-Vinyl-2-pyrrolidone homopolymer
 CN 1-Vinyl-2-pyrrolidone polymer
 CN 143RP
 CN Agent AT 717
 CN Agrimer 15
 CN Agrimer 30
 CN Agrimer 90
 CN Agrimer K 30
 CN Albigen A

CN Aldacol Q
CN Antaron P 804
CN Antitox Vana
CN AT 717
CN B 7509
CN Bolinan
CN Cevian A 88036
CN Divergan RS
CN Gaftex AE-K 15
CN Ganex P 804
CN Hemodesis
CN Hemodez
CN K 115
CN K 115 (vinyl polymer)
CN K 120
CN K 120 (vinyl polymer)
CN K 15
CN K 15 (polymer)
CN K 17
CN K 25
CN K 25 (surfactant)
CN K 30
CN K 60
CN K 60 (polymer)
CN K 90
CN Kollidon
CN Kollidon 12PF
CN Kollidon 17
CN Kollidon 17PF
CN Kollidon 25
CN Kollidon 30
CN Kollidon 90
CN Kollidon 90F
CN Kollidon CE 50/50
CN Kollidon K 17
CN Kollidon K 25
CN Kollidon K 30
CN Kollidon K 90
CN Kollidon K 90F
CN LFC
CN Lumiten PR 8450
CN Luvicross M
CN Luviskol K
CN Luviskol K 12
CN Luviskol K 17
CN Luviskol K 25
CN Luviskol K 30
CN Luviskol K 60
CN Luviskol K 80
CN Luviskol K 90
CN Luviskol K 910
CN Luviskol KPO
CN MPK 90
CN N-Vinyl-2-pyrrolidinone homopolymer
CN N-Vinyl-2-pyrrolidone homopolymer

CN N-Vinyl-2-pyrrolidone polymer
CN N-Vinylbutyrolactam polymer
CN N-Vinylpyrrolidinone polymer
CN N-Vinylpyrrolidone homopolymer
CN N-Vinylpyrrolidone polymer
CN Neocompensan
CN NP-K 30
CN NPK 15
CN NPK 90
CN P 0696
CN PAK-K 15
CN Peregal ST
CN Periston
CN Periston N
CN Peviston
CN Plasdone
CN Plasdone 4
CN Plasdone C
CN Plasdone C 15
CN Plasdone K 15
CN Plasdone K 29-32
CN Plasdone K 30
CN Plasdone K 90
CN Plasdone XL
CN Plasdone XL 10
CN Plasmosan
CN Poly(1-vinyl-2-pyrrolidinone)
CN Poly(1-vinyl-2-pyrrolidone)
CN Poly(1-vinylpyrrolidinone)
CN Poly(N-vinyl- γ -butyrolactam)
CN Poly(N-vinyl-2-pyrrolidinone)
CN Poly(N-vinyl-2-pyrrolidone)
CN Poly(N-vinylbutyrolactam)
CN Poly(N-vinylpyrrolidinone)
CN Poly(N-vinylpyrrolidone)
CN Poly(vinylpyrrolidinone)
CN Poly(vinylpyrrolidone)
CN Polyclar AT
CN Polyclar H
CN Polyclar L
CN Polyplasdone
CN Polyplasdone INF 10
CN Polyplasdone XL
CN Polyplasdone XL 10
CN Polyvidon
CN Polyvidone
CN Polyvinylpyrrolidon XL
CN Polyvinylpyrrolidone
CN Poviderm SK 3
CN Povidone
CN Povidone K 25
CN Povidone K 29-32
CN Povidone K 2932
CN Povidone K 30
CN Povidone K 90

CN Protagent
CN PV 03
CN PV 03 (vinyl pyrrolidone polymer)
CN PV 05
CN **PVP**
CN PVP 10
CN PVP 1230
CN PVP 25
CN PVP 40
CN PVP 50
CN PVP-K
CN PVP-K 120
CN PVP-K 15
CN PVP-K 17
CN PVP-K 25
CN PVP-K 26/28
CN PVP-K 3
CN PVP-K 30
CN PVP-K 40
CN PVP-K 60
CN PVP-K 70
CN PVP-K 80
CN PVP-K 90
CN PVPP
CN SD 13
CN SD 13 (polymer)
CN Sokalan HP 50
CN Sokalan HP 53
CN Subtosan
CN Vinisil
CN Vinylpyrrolidinone polymer
CN Vinylpyrrolidone homopolymer
CN Vinylpyrrolidone polymer